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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,668		02/06/2004	Norbert Keim	10191/3576	7528
26646	7590	08/31/2006		EXAMINER	
KENYO	N & K	ENYON LLP	NGUYEN, CUONG H		
ONE BROADWAY				ART UNIT	PAPER NUMBER
NEW YO	NEW YORK, NY 10004			ARTONIT	PAPER NUMBER
				3661	
			DATE MAILED: 09/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		T A it At At	A!:4/->			
		Application No.	Applicant(s)			
	Office Action Summany	10/773,668	KEIM ET AL.			
	Office Action Summary	Examiner	Art Unit			
		CUONG H. NGUYEN	3661			
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with	the correspondence addr	ess		
WHIC - Externafter - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a rep will apply and will expire SIX (6) MONTH c, cause the application to become ABAI	ATION. ly be timely filed IS from the mailing date of this common NDONED (35 U.S.C. § 133).			
Status						
·	Responsive to communication(s) filed on 12 Ju This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	s action is non-final. nce except for formal matter		nerits is		
Dispositi	ion of Claims					
5) □ 6) ⊠ 7) ⊠ 8) □ Applicati	Claim(s) <u>1-11</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-3 and 5-11</u> is/are rejected. Claim(s) <u>4</u> is/are objected to. Claim(s) are subject to restriction and/or ion Papers	wn from consideration. or election requirement.				
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>06 February 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	e: a)⊠ accepted or b)□ ob drawing(s) be held in abeyance tion is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR	R 1.121(d).		
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	nt(s) ce of References Cited (PTO-892)	4)	mmary (PTO-413)			
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 2/06/04, 3/29/05	Paper No(s)/	Mail Date ormal Patent Application (PTO-1	152)		

DETAILED ACTION

- 1. This Office Action is the answer to the IDS received on 2/06/04/04, which paper has been placed of record in the file.
- 2. Claims 1-11 are pending in this application.

Drawings

3. The submitted formal drawings are acceptable for examining purposes.

Priority

4. The application claims a Germany priority of 10304711.5 on 2/06/2003.

Claim Rejections - 35 USC § 112

- 5. Claim 1 cites "altering a clock frequency of the trigger signal by the control device as a function of a performance quantity of the electromagnetic valve"; the examiner respectfully submits that the specification does not say who/how to alter that frequency; according to a well-known feedback signal for PWM circuits, this is automatically done (that presumably answers for a "who" question; however, the question "how" should be elaborated further so that one with ordinary skill in the art can duplicate this invention without trial and error—currently, it is vague and unclear, that is, how to alter a clock frequency of claimed circuit and what is a claimed "a performance quantity" (is it a speed of closing said "electromagnetic valve", is it a quality/degree of "valve closing"?, is it about a degree of promptly response for a command?, this is essential to the claimed invention but not elaborated in the claim.
- 6. Claim 3 comprises a feature of "the clock frequency depends on ... current...", this is unclear of how a definition of "depends on".

- 7. Claim 2 comprises a feature of "the method is for an automatic transmission of a motor vehicle"; it is unclear how controlling an electromagnetic valve relate to a transmission.
- 8. Claims 3-9 are rejected on 35 USC 112, 2nd para. because the format for a method claim is not conformed for clarity, please make corrections according to formats that present in pending claims 10-11.

Since this is a utility patent, the claims must be directed to systems, methods or articles of manufacture that have a clear utility. See MPEP 706.03(a) for example. Over the years, numerous court decisions have analyzed the content of various claimed language for meaningful, useful differences in structure or acts performed between the claims and the prior art. Some of these decision have found that certain language adds little, if anything, to the claimed structure or acts and thus do not serve as a limitation on the claims to distinguish over the prior art. For example, language directed to an intended use of dispensing popcorn in a claim for a product did not result in a structural or functional difference with respect to prior art and were held not to serve as a limitation on the claim. See in re Schreiber, 44 USPQ2d 1429 (CAFC 1997).

Thus, a limitation on a claim can broadly be thought of as its ability to make a meaningful contribution to the definition of the invention in a claim. In other words, language that is not functionally interrelated with the useful acts, structure, or properties of the claimed invention will not serve as a limitation. See in re Gulack, 217 USPQ 401 (CAFC 1983), ex parte Carver, 227 USPQ 465 (BdPatApp&Int 1985) and in re Lowry, 32 USPQ2d 1031 (CAFC 1994) where language provided certain limitations because of specific relationships required by the claims.).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraph of 35 U.S.C. § 102 in view of the AIPA and H.R. 2215 that forms the basis for the rejections under this section made in the attached Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 35 U.S.C. § 102(e), as revised by the AIPA and H.R. 2215, applies to all qualifying references, except when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. For such patents, the prior art date is determined under 35 U.S.C. § 102(e) as it existed prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. § 102(e)).
- 9. Claims 1-3, and 7 are rejected under 35 U.S.C. § 102(e) as being anticipate by Oashi (US Pat. 6,792,916).
- A. As to claim 1: Oashi teaches about a method for controlling an electromagnetic valve (see Oashi, Fig. 2a-2c, and claim 5), comprising:
- triggering a coil of the electromagnetic valve by a control device with a pulse-width modulated trigger signal; and
- altering a clock frequency of the trigger signal by the control device as a function of a performance quantity of the electromagnetic valve (see Oashi, the summary of the invention).
- B. As to claim 2: Oashi teaches about a method for controlling an electromagnetic valve, comprising: a feature of the method is for an automatic transmission of a motor vehicle (see Oashi, the summary of the invention, col. 3 lines 1-67).
- C. As to claim 3: Oashi teaches about a method for controlling an electromagnetic valve, comprising: the clock frequency depends on <u>at least one</u> of a set point valve current through the coil and an actual valve current through the coil (see Oashi, FIGs. 2A-2C, FIG.4A, AND FIG.4B).
- D. As to claim 7: Oashi teaches about a method for controlling an electromagnetic valve, comprising:

the clock frequency depends on a level of a power supply voltage of the electromagnetic valve (see '916 "FIG. 8 shows the results of experiments to determine the ability to withstand the influence of power source voltage at each control frequency.").

Conclusions

10The prior art made of record, which are listed in PTO-892, and not relied upon are considered pertinent to applicant's disclosure.

- Note: Using PWM is very well known in controlling current of voltage output (e.g., controlling a power supply output with accuracy a transformer (a coil/inductor) is used in that controlled circuit); this invention is merely use that technique to control a valve (using an actual valve current to feedback).
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759. The examiner can normally be reached on 9:00 am 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax number for the organization where this application is assigned is 571-273-6759.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.N. 10/773,668 Art Unit 3661

Please provide support, with page and line numbers, for any amended or new claim in an effort to help advance prosecution; otherwise any new claim language that is introduced in an amended or new claim may be considered as new matter, especially if the Application is a Jumbo Application.

Primary Examiner